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FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1700.0030002/JAG/SGW

APPLICATION NO.  
09/449,631

APPLICANT  
RENNER et al.

FILING DATE  
November 30, 1999

GROUP  
1646

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
M/M	AA1	5,071,651	12/10/1991	Sabara et al.	424	89	03/05/1990
	AB1	5,334,394	08/02/1994	Kossovsky et al.	424	494	01/04/1993
	AC1	5,374,426	12/20/1994	Sabara et al.	530	403	10/30/1989
	AD1	5,739,026	04/14/1998	Garoff et al.	435	240.2	08/13/1992
	AE1	5,770,380	06/23/1998	Hamilton et al.	435	7.1	09/13/1996
	AF1	5,766,602	06/16/1998	Xiong et al.	424	218.1	01/19/1995
	AG1	5,792,462	08/11/1998	Johnston et al.	424	199.1	05/23/1995
	AH1	5,814,482	09/29/1998	Dubensky, Jr. et al.	435	69.3	10/30/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
M/M	AI1	EP 0 259 149 A2	03/09/1988	Europe			Yes No
	AJ1	EP 0 425 082 A1	05/02/1991	Europe			Yes No
	AK1	WO 92/11291 A1	07/09/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M/M	AL	1	Baba, T. W., et al., "Pathogenicity of Live, Attenuated SIV After Mucosal Infection of Neonatal Macaques," <i>Science</i> 267:1820-1825 (1995)
	AM	1	Bachmann, M. F., et al., "Dendritic cells process exogenous viral proteins and virus-like particles for class I presentation to CD8+ cytotoxic T lymphocytes," <i>Eur. J. Immunol.</i> 26:2595-2600 (1996)
	AN	1	Bachmann, M. F. and Zinkernagel, R. M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558 (1996)
	AO	1	Bachmann, M. F. and Zinkernagel, R. M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270 (1997)
	AP	1	Borisova, G., et al., "Hybrid Hepatitis B Virus Nucleocapsid Bearing an Immunodominant Region from Hepatitis B Virus Surface Antigen," <i>J. Virol.</i> 67:3696-3701 (1993)

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*Warden*

DATE CONSIDERED

*2-2-02*

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		APPLICANT RENNER et al.	
		FILING DATE November 30, 1999	GROUP 1646

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
MM	AA2	5,871,747	02/16/1999	Gengoux-Sedlik et al.	424	208.1	04/28/1995
↓	AB2	5,789,245	08/04/1998	Dubensky, Jr. et al.	435	320.1	10/30/1996
	AC2	6,004,763	12/21/1999	Gengoux et al.	435	7.24	05/12/1998
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MM	AI2	WO 94/06472 A1	03/31/1994	WIPO	<i>Chs Esp JJ AA2</i>		Yes No
↓	AJ2	WO 94/15585 A1	07/21/1994	WIPO			Yes No
	AK2	WO 96/05293 A1	02/22/1996	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AL	2	Cesareni, G., "Peptide display on filamentous phage capsids," FEBS Lett. 307:66-70 (1992)
	AM	2	Clark, H. F., et al., "Comparative Characterization of a C-Type Virus-Producing Cell Line (VSV) and a Virus-Free Cell Line (VH2) from Vipera russelli," J. Natl. Cancer Inst. 51:645-657 (1973)
	AN	2	Connor, R. I., et al., "Immunological and Virological Analyses of Persons Infected by Human Immunodeficiency Virus Type 1 while Participating in Trials of Recombinant gp120 Subunit Vaccines," J. Virol. 72:1552-1576 (February 1998)
	AO	2	Crameri, R. and Suter, M., "Display of biologically active proteins on the surface of filamentous phages: a cDNA cloning system for selection of functional gene products linked to the genetic information responsible for their production," Gene 137:69-75 (1993)
↓	AP	2	Daniel, M. D., et al., "Protective Effects of a Live Attenuated SIV Vaccine with a Deletion in the nef Gene," Science 258:1938-1941 (1992)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MM	AI3	WO 96/30523 A2	10/03/1996	WIPO			Yes No
↓	AJ3	WO 98/15631 A1	04/16/1998	WIPO			Yes No
↓	AK3	WO 99/40934 A1	08/19/1999	WIPO			Yes No
<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
MM	AL	3	Davis, N. L., et al., "In Vitro Synthesis of Infectious Venezuelan Equine Encephalitis Virus RNA from a cDNA Clone: Analysis of a Viable Deletion Mutant," <i>Virology</i> 171:189-204 (1989)				
	AM	3	de la Cruz, V. F., et al., "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," <i>J. Biol. Chem.</i> 263:4318-4322 (1988)				
	AN	3	Donnelly, J. J., et al., "DNA Vaccines," <i>Annu. Rev. Immunol.</i> 15:617-648 (1997)				
	AO	3	Fehr, T., et al., "Role of Repetitive Antigen Patterns for Induction of Antibodies Against Antibodies," <i>J. Exp. Med.</i> 185:1785-1792 (May 1997)				
↓	AP	3	Fürster, E., et al., "Natural and recombinant enzymatically active or inactive bee venom phospholipase A <sub>2</sub> has the same potency to release histamine from basophils in patients with Hymenoptera allergy," <i>J. Allergy Clin. Immunol.</i> 95:1229-1235 (1995)				
EXAMINER <i>Mosley</i>					DATE CONSIDERED <i>2-21-02</i>		
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	AI						Yes No
	AJ						Yes No
	AK						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AL	4	Fujiwara, K., <i>et al.</i> , "Novel Preparation Method of Immunogen for Hydrophobic Hapten, Enzyme Immunoassay for Daunomycin and Adriamycin," <i>J. Immunol. Meth.</i> 45:195-203 (1981)
	AM	4	Gilbert, S. C., <i>et al.</i> , "A protein particle vaccine containing multiple malaria epitopes," <i>Nature Biotechnol.</i> 15:1280-1284 (November 1997)
	AN	4	Greenstone, H. L., <i>et al.</i> , "Chimeric papillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," <i>Proc. Natl. Acad. Sci. USA</i> 95:1800-1805 (February 1998)
	AO	4	Hahn, C. S., <i>et al.</i> , "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," <i>Proc. Natl. Acad. Sci. USA</i> 89:2679-2683 (1992)
↓	AP	4	Harding, C. V. and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," <i>J. Immunol.</i> 153:4925-4933 (1994)

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		2-2-02

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AI						Yes No
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MW	AL	5	Hilleman, M. R., "Six decades of vaccine development—a personal history," <i>Nature Med. Vaccine Suppl.</i> 4:507-514 (May 1998)
	AM	5	Iannolo, G., et al., "Construction, Exploitation and Evolution of a New Peptide Library Displayed at High Density by Fusion to the Major Coat Protein of Filamentous Phage," <i>Biol. Chem.</i> 378:517-521 (June 1997)
	AN	5	Iannolo, G., et al., "Modifying Filamentous Phage Capsid: Limits in the Size of the Major Capsid Protein," <i>J. Mol. Biol.</i> 248:835-844 (1995)
	AO	5	Jiang, X., et al., "Norwalk Virus Genome Cloning and Characterization," <i>Science</i> 250:1580-1583 (1990)
↓	AP	5	Kovacsics-Bankowski, M., et al., "Efficient major histocompatibility complex class I presentation of exogenous antigen upon phagocytosis by macrophage," <i>Proc. Natl. Acad. Sci. USA</i> 90:4942-4946 (1993)

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2-21-02

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AI6						Yes No
	AJ6						Yes No
	AK6						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AL	6	Kratz, P. A., et al., "Native display of complete foreign protein domains on the surface of hepatitis B virus capsids," Proc. Natl. Acad. Sci. USA 96:1915-1920 (March 1999)
	AM	6	Landschulz, W. H., et al., "The Leucine Zipper: A Hypothetical Structure Common to a New Class of DNA Binding Proteins," Science 240:1759-1764 (1988)
	AN	6	Leake, C. J., et al., "Cytopathic Effect and Plaque Formation by Arboviruses in a Continuous Cell Line (XTC-2) from the Toad Xenopus laevis," J. Gen. Virol. 35:335-339 (1977)
	AO	6	Lee, K. H., et al., "Two-Dimensional Electrophoresis of Proteins as a Tool in the Metabolic Engineering of Cell Cycle Regulation," Biotech. and Bioeng. 50:336-340 (1996)
↓	AP	6	Liljestrom, P. and Garoff, H., "A New Generation of Animal Cell Expression Vectors Based on the Semliki Forest Virus Replicon," Biotechnol. 9:1356-1361 (1991)

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<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
MM	AL	Z	Liljeström, P., "Alphavirus expression systems," <i>Curr. Opin. Biotech.</i> 5:495-500 (1994)				
	AM	Z	Lo-Man, R., et al., "A recombinant virus-like particle system derived from parvovirus as an efficient antigen carrier to elicit a polarized Th1 immune response without adjuvant," <i>Eur. J. Immunol.</i> 28:1401-1407 (April 1998)				
	AN	Z	López, O., et al., "Direct formation of mixed micelles in the solubilization of phospholipid liposomes by Triton X-100," <i>FEBS Lett.</i> 426:314-318 (April 1998)				
	AO	Z	Lundstrom, K., "Alphaviruses as expression vectors," <i>Curr. Opin. Biotech.</i> 8:578-582 (October 1997)				
↓	AP	Z	Matsui, S. M., et al., "The Isolation and Characterization of a Norwalk Virus-specific cDNA," <i>J. Clin. Invest.</i> 87:1456-1461 (1991)				
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	AI						Yes No
	AJ						Yes No
	AK						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AL	8	Minenkova, O. O., et al., "Design of specific immunogens using filamentous phage as the carrier," Gene 128:85-88 (1993)
	AM	8	Morein, B., et al., "Iscom, a novel structure for antigenic presentation of membrane proteins from enveloped viruses," Nature 308:457-460 (1984)
	AN	8	Neurath, A. R., et al., "Hepatitis B Virus Surface Antigen (HBsAg) As Carrier for Synthetic Peptides Having An Attached Hydrophobic Tail," Mol. Immunol. 26:53-62 (1989)
	AO	8	O'Shea, E. K., et al., "Mechanism of Specificity in the Fos-Jun Oncoprotein Heterodimer," Cell 68:699-708 (1992)
↓	AP	8	Perham, R. N., et al., "Engineering a peptide epitope display system on filamentous bacteriophage," FEMS Microbiol. Rev. 17:25-31 (1995)

EXAMINER *Molley*DATE CONSIDERED *2-21-02*

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	AI						Yes No
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MM	AL	9	Pumpens, P. and Grens, E., "Hepatitis B core particles as a universal display model: a structure-function basis for development," FEBS Lett. 442:1-6 (January 1999)
	AM	9	Petrenko, V. A., et al., "A library of organic landscapes on filamentous phage," Protein Engin. 9:797-801 (1996)
	AN	9	Raychaudhuri, S. and Rock, K. L., "Fully mobilizing host defense: Building better vaccines," Nature Biotechnol. 16:1025-1031 (November 1998)
	AO	9	Redfield, R. R., et al., "Disseminated Vaccinia in a Military Recruit with Human Immunodeficiency Virus (HIV) Disease," N. Eng. J. Med. 316:673-676 (1987).
↓	AP	9	Renner, W. A., et al., "Recombinant Cyclin E Expression Activates Proliferation and Obviates Surface Attachment of Chinese Hamster Ovary (CHO) Cells in Protein-Free Medium," Biotech. Bioeng. 47:476-482 (1995)

EXAMINER

*Murphy*

DATE CONSIDERED 2-21-02

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MM	AL	10	Romagnani, S., "The Th1/Th2 paradigm," <i>Immuno1. Today</i> 18:263-266 (June 1997)
	AM	10	Schlesinger, S., Alphaviruses - vectors for the expression of heterologous genes," <i>TIBTECH</i> 11:18-22 (1993)
	AN	10	Sedlik, C., et al., "Recombinant parvovirus-like particles as an antigen carrier: A novel nonreplicative exogenous antigen to elicit protective antiviral cytotoxic T cells," <i>Proc. Natl. Acad. Sci. USA</i> 94:7503-7508 (July 1997)
	AO	10	Shen, L., et al., "Recombinant Virus Vaccine-Induced SIV-Specific CD8+ Cytotoxic T Lymphocytes," <i>Science</i> 252:440-443 (1991)
↓	AP	10	Stollar, V., "The Togaviruses: Biology, Structure, Replication," Schlesinger, R. W. (ed.), Academic Press, New York, pp. 612-615 (1980)

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MM	AL	11	Strauss, J. H. and Strauss, E. G., "The Alphaviruses: Gene Expression, Replication, and Evolution," <i>Microbiol. Rev.</i> 58:491-562 (1994)
	AM	11	Tanimori, H., et al., "Enzyme Immunoassay of Neocarzinostatin Using $\beta$ -Galactosidase as Label," <i>J. Pharm. Dyn.</i> 4:812-819 (1981)
	AN	11	Topchieva, I. and Karezin, K., "Self-Assembled Supramolecular Micellar Structures Based on Non-ionic Surfactants and Cyclodextrins," <i>J. Colloid Interface Sci.</i> 213:29-35 (May 1999)
	AO	11	Townsend, A. and Bodmer, H., "Antigen Recognition by Class I-Restricted T Lymphocytes," <i>Ann. Rev. Immunol.</i> 7:601-624 (1989)
↓	AP	11	Twomey, T., et al., "Structure and immunogenicity of experimental foot-and-mouth disease and poliomyelitis vaccines," <i>Vaccine</i> 13:1603-1610 (1995)
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	AK						Yes No

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MM	AL	<u>12</u>	Ulrich, R., et al., "Core Particles of Hepatitis B Virus as Carrier for Foreign Epitopes," <i>Adv. in Virus Res.</i> 50:141-182 (1998)
	AM	<u>12</u>	VanCott, T. C., et al., "Antibodies with Specificity to Native gp120 and Neutralization Activity against Primary Human Immunodeficiency Virus Type 1 Isolates Elicited by Immunization with Oligomeric gp160," <i>J. Virol.</i> 71:4319-4330 (June 1997)
	AN	<u>12</u>	Warnes, A., et al., "Expression of the measles virus nucleoprotein gene in <i>Escherichia coli</i> and assembly of nucleocapsid-like structures," <i>Gene</i> 160:173-178 (1995)
	AO	<u>12</u>	Watson, E., et al., "Structure determination of the intact major sialylated oligosaccharide chains of recombinant human erythropoietin expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 4:227-237 (1994)
✓	AP	<u>12</u>	Xiong, C., et al., "Sindbis Virus: An Efficient, Broad Host Range Vector for Gene Expression in Animal Cells," <i>Science</i> 243:1188-1191 (1989)

EXAMINER <i>Mosley</i>	DATE CONSIDERED <i>2-21-02</i>
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FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 1700.0030002/JAG/SGW	APPLICATION NO. 09/449,631
		APPLICANT RENNER et al.	
		FILING DATE November 30, 1999	GROUP 1646

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AI						Yes No
	AJ						Yes No
	AK						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AL	13	Zang, M., et al., "Production of Recombinant Proteins in Chinese Hamster Ovary Cells Using a Protein-Free Cell Culture Medium," <i>Biotechnology</i> 13:389-392 (1995)
↓	AM	13	Invitrogen Manual, "Sindbis Expression System Version C," from internet web page <a href="http://www.invitrogen.com/manuals.html">http://www.invitrogen.com/manuals.html</a> , Catalog No. K750-01 (1996).
	AN		
	AO		
	AP		

EXAMINER	<i>Mosley</i>	DATE CONSIDERED	<i>221-02</i>
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